

FIG. 1

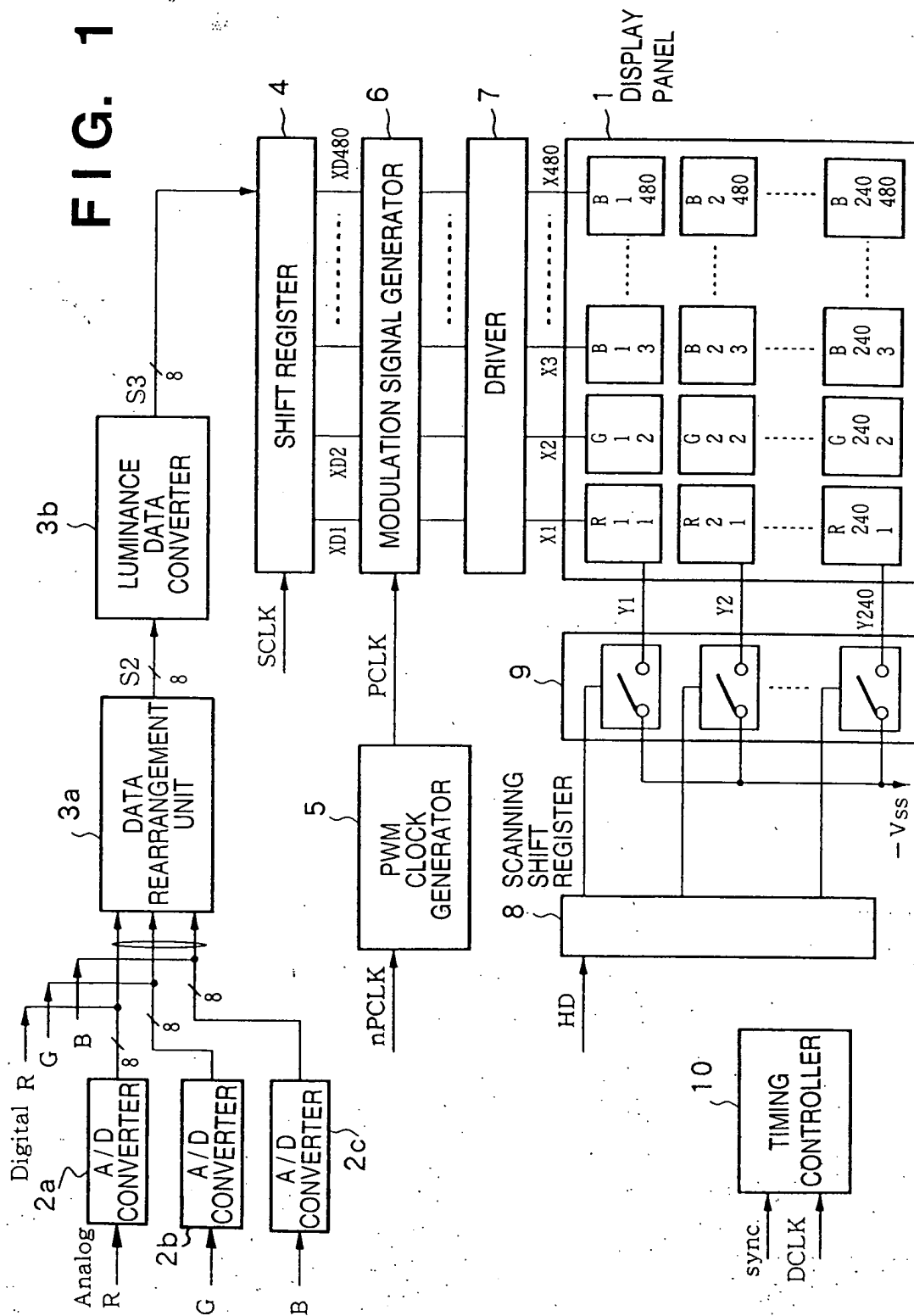
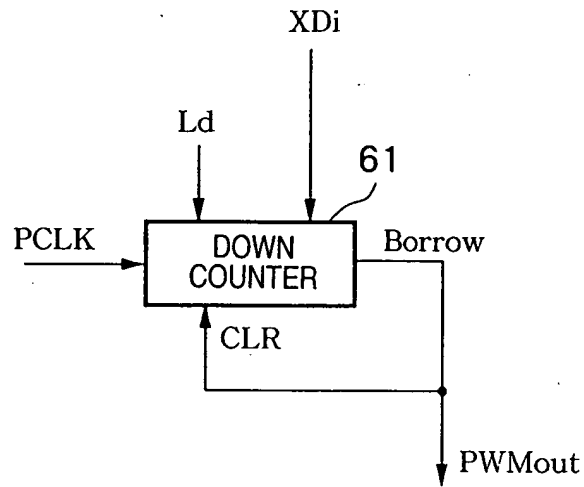


FIG. 2



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662T20-03684260

| | | |
|-----------|-------|----------|
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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FIG. 3

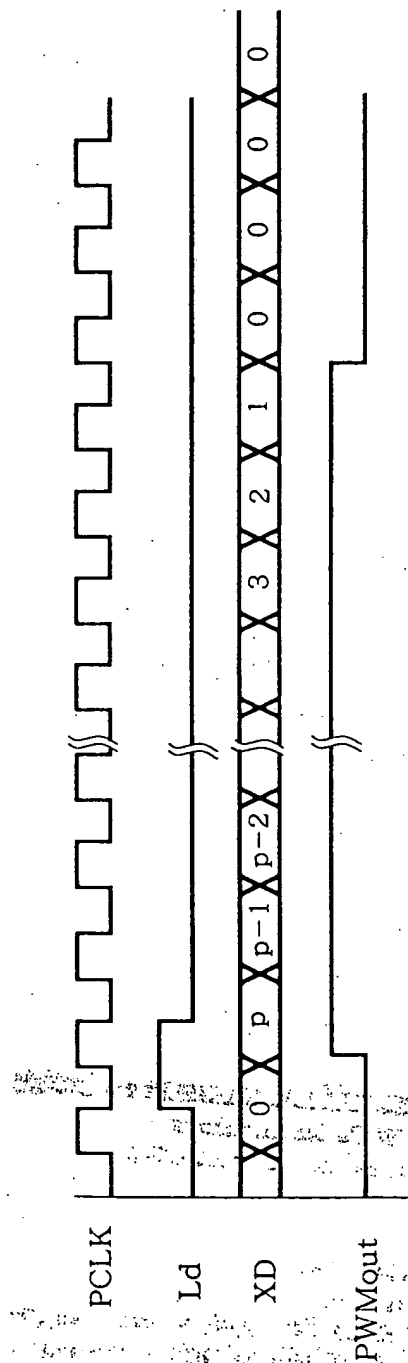
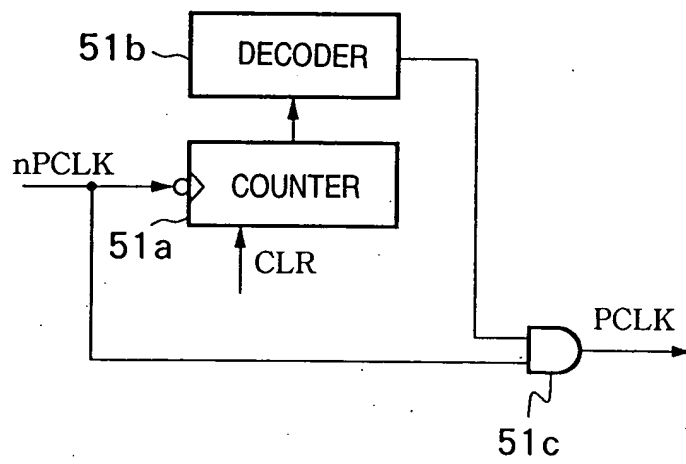


FIG. 4



662120-08684260

FIG. 5

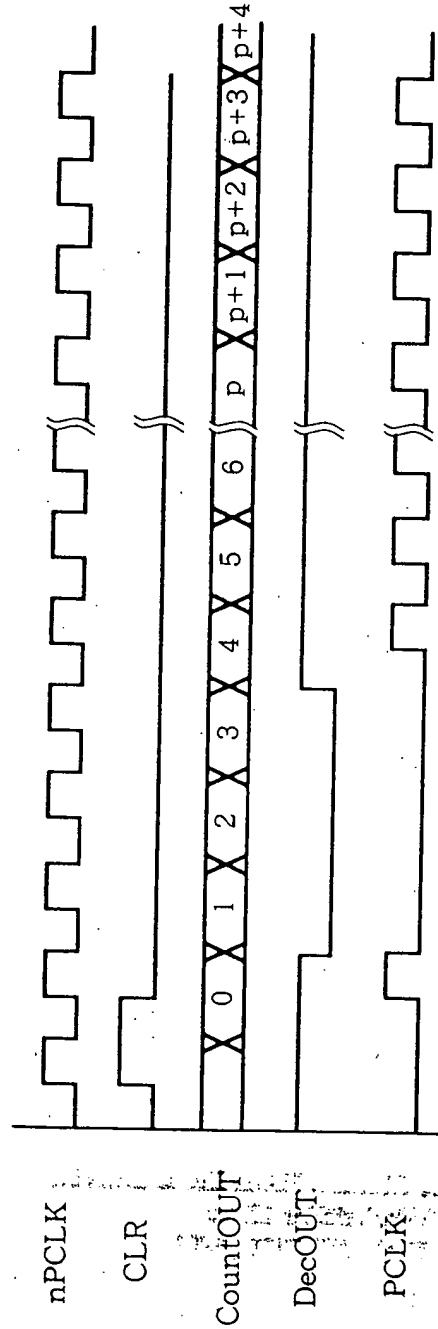


FIG. 6

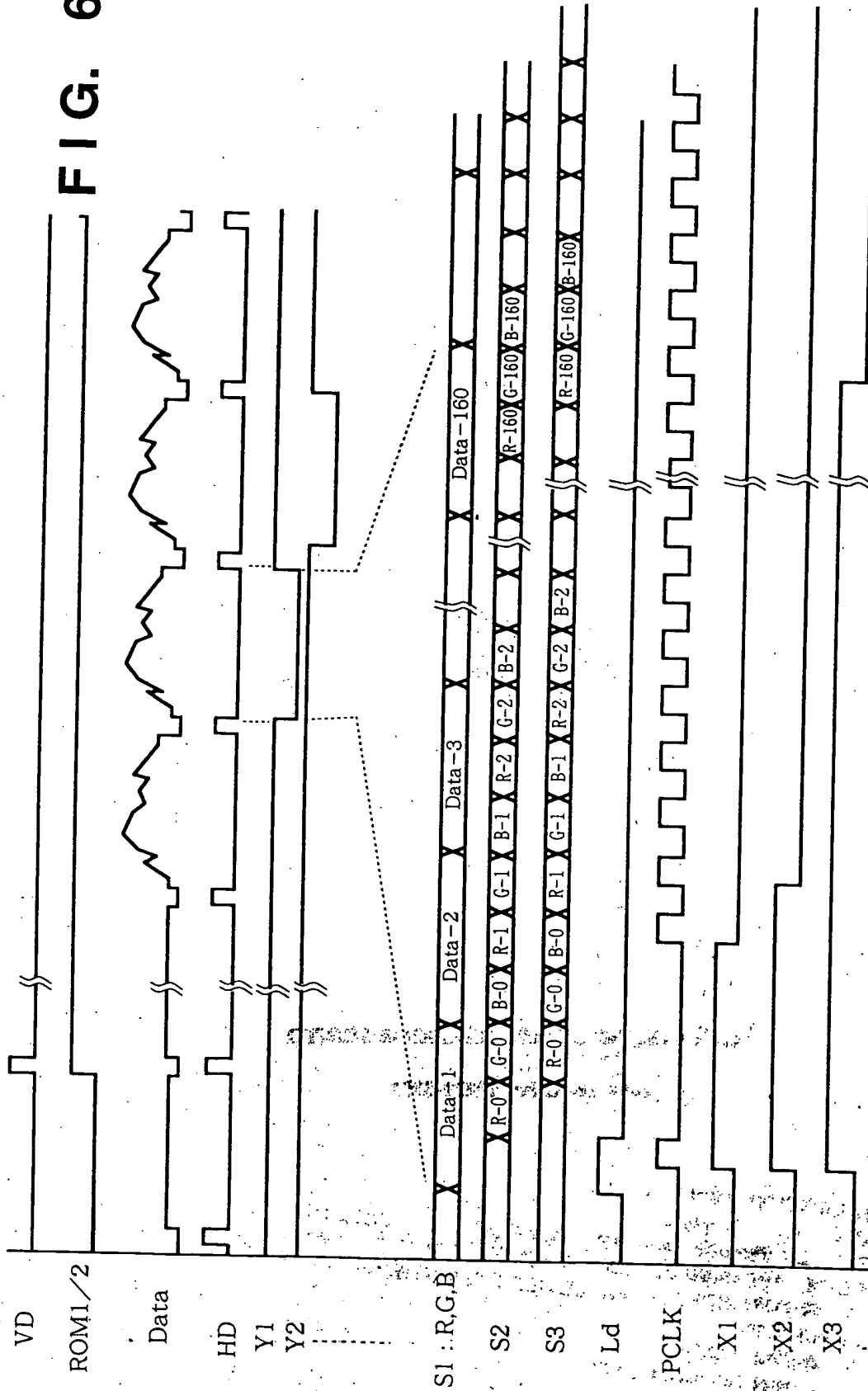
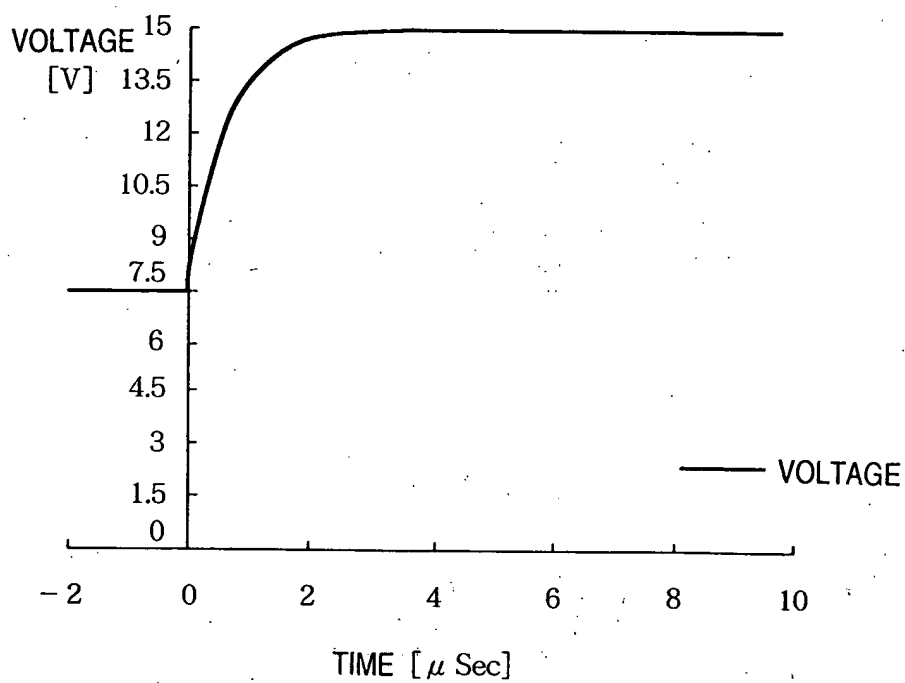


FIG. 7



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FIG. 8A

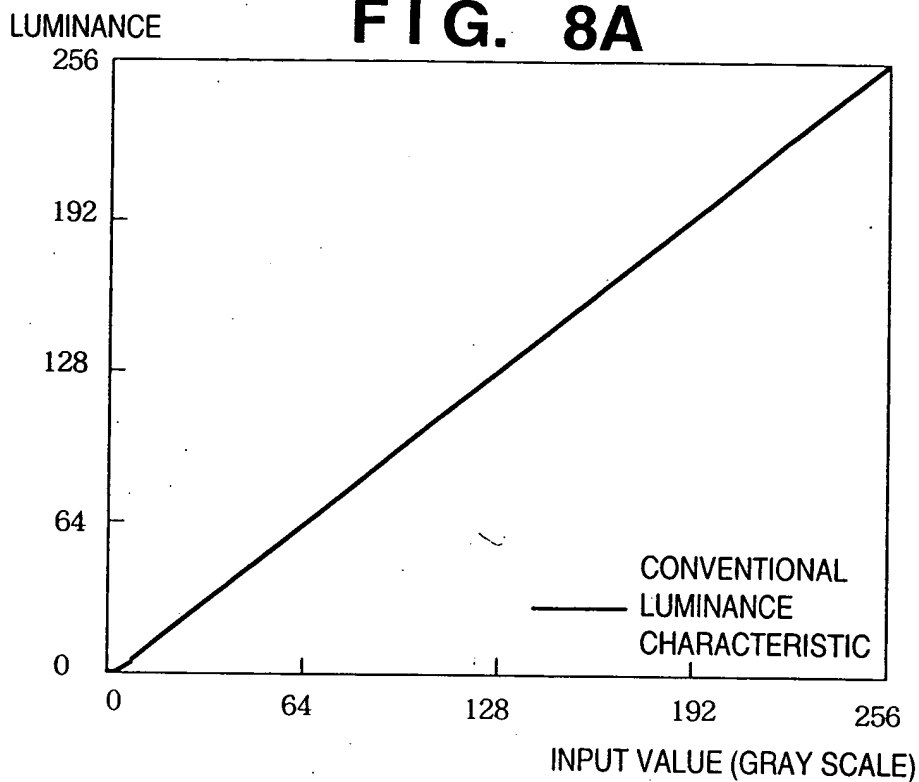
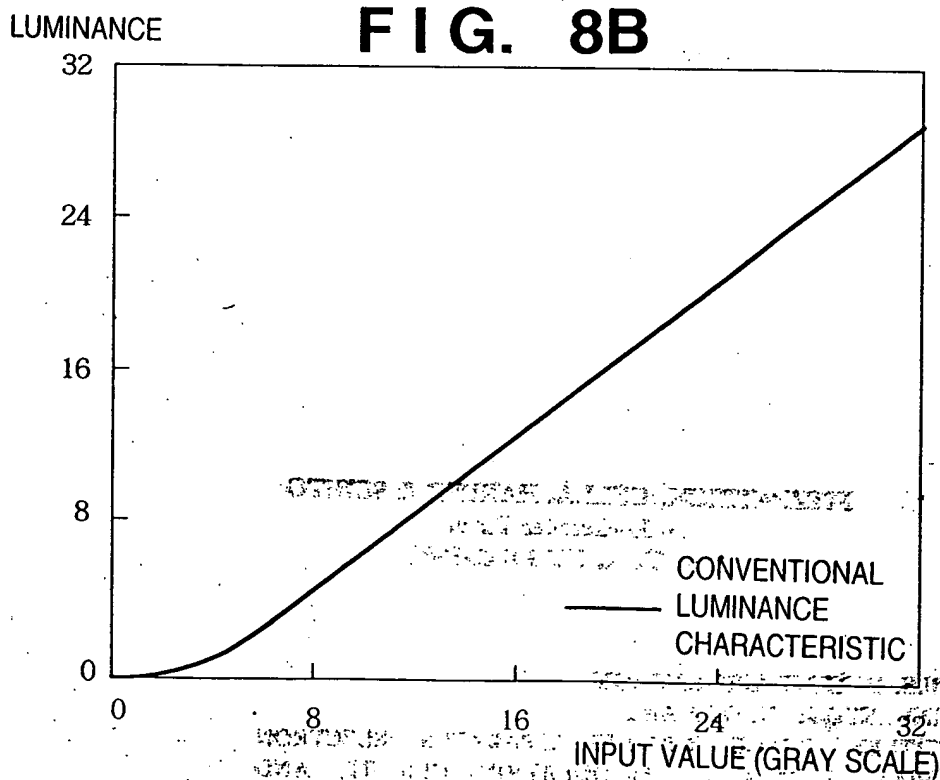


FIG. 8B



652120-08684250

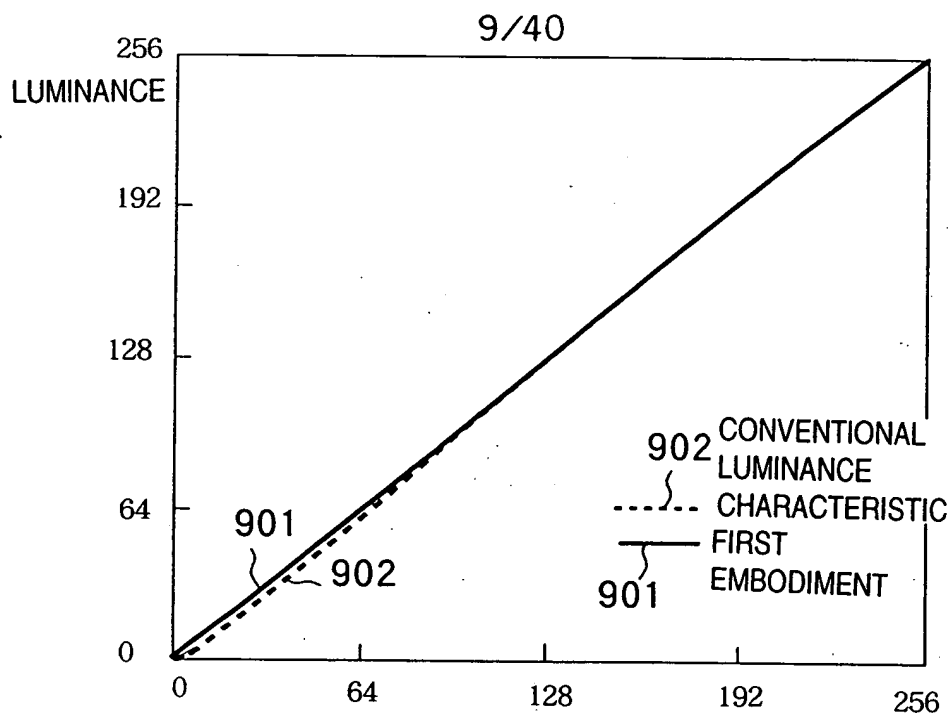


FIG. 9A INPUT VALUE (GRAY SCALE)

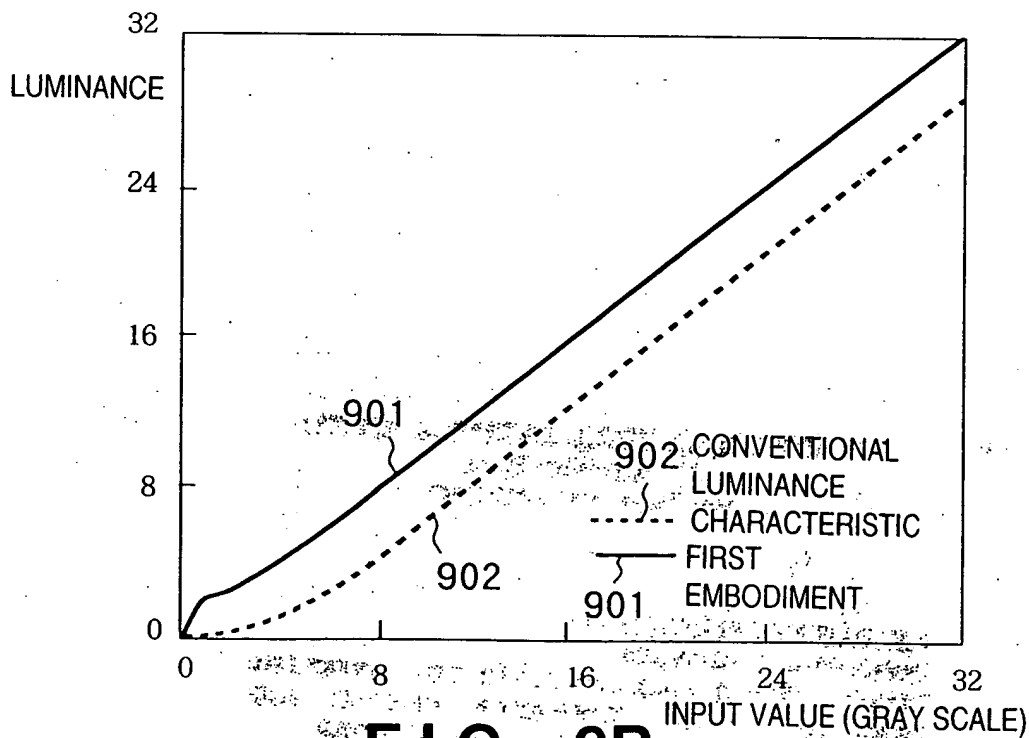
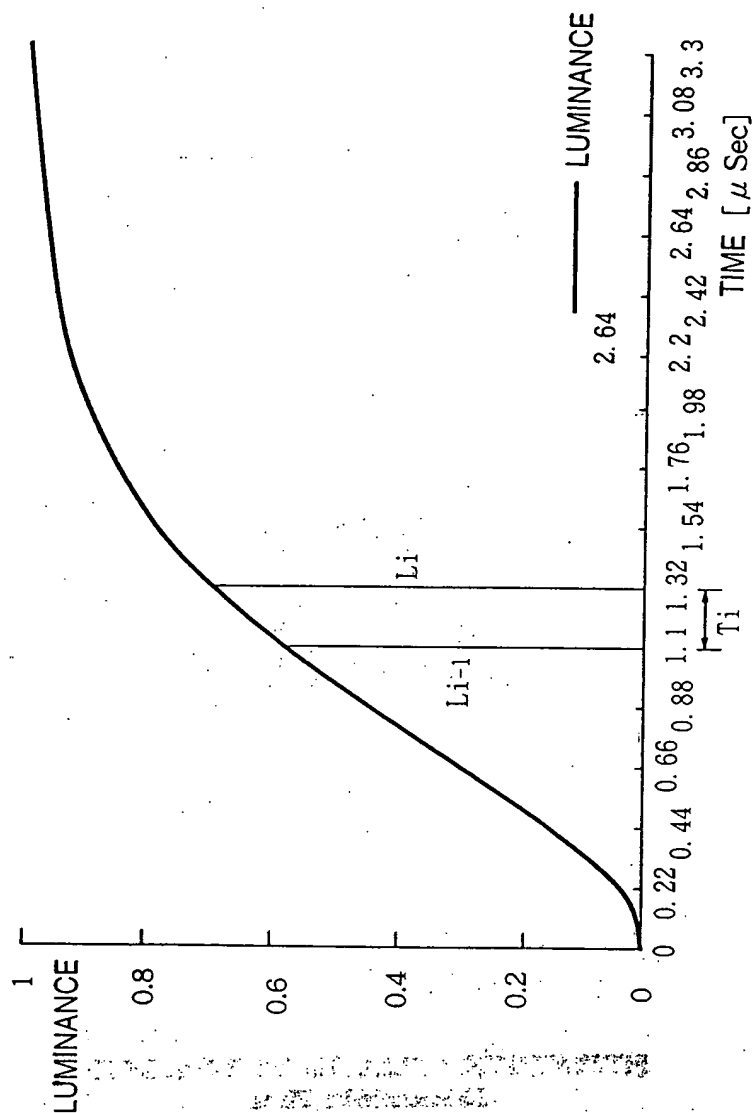


FIG. 9B

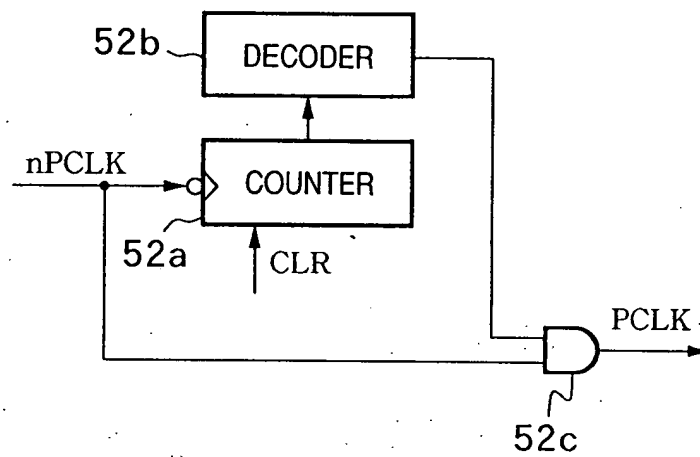
0924980-01299

FIG. 10



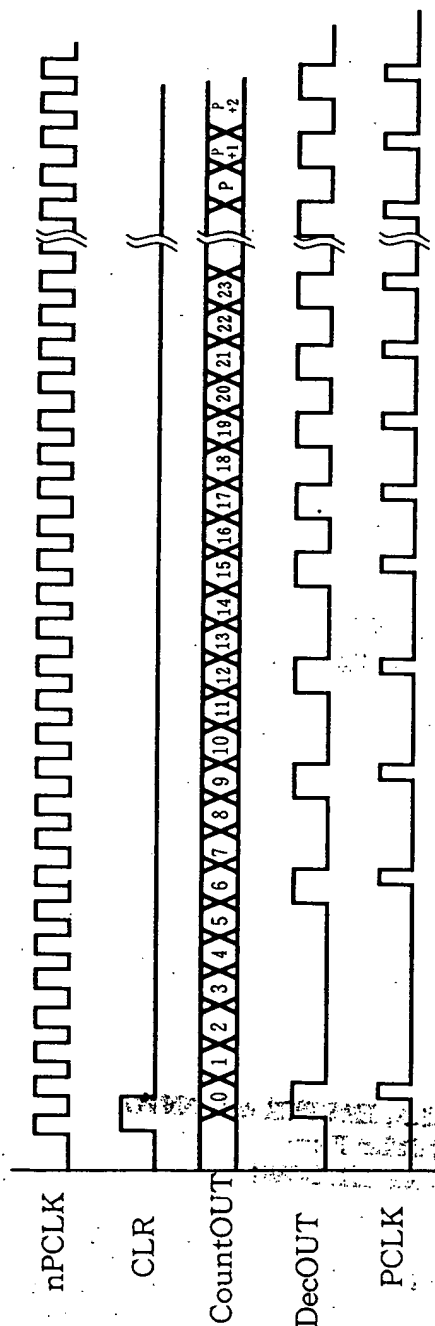
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FIG. 11



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FIG. 12



OUTPUT
LUMINANCE

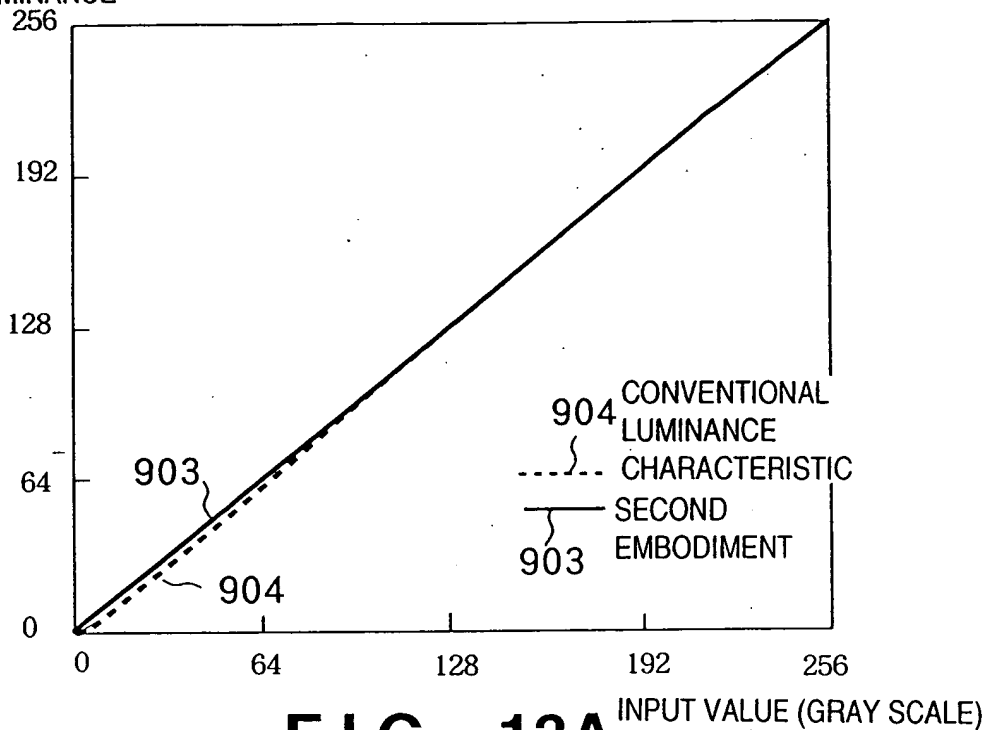


FIG. 13A

OUTPUT
LUMINANCE

FIG. 13B

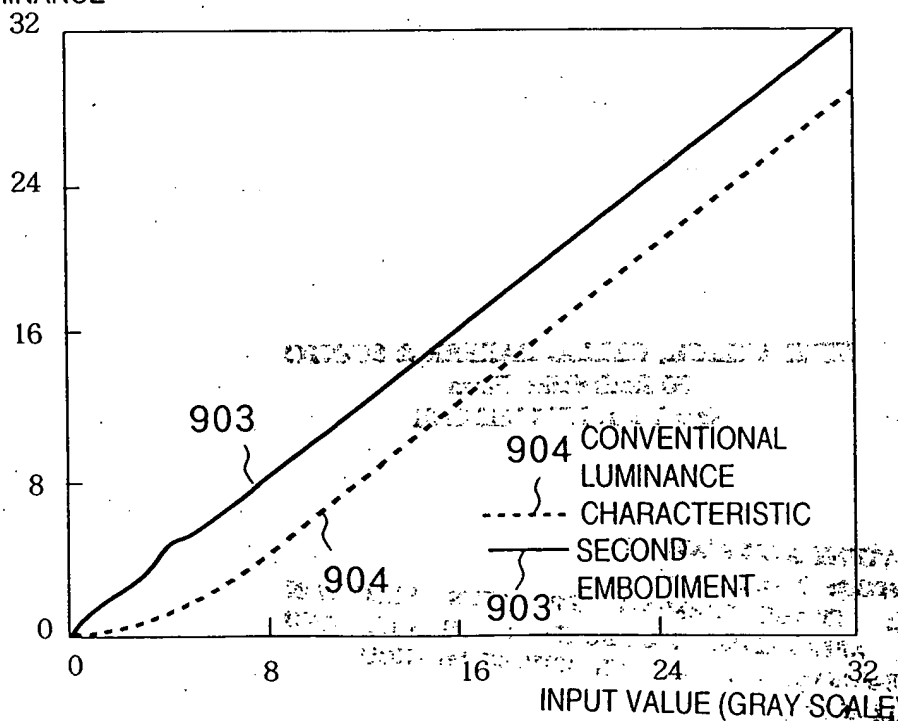


FIG. 14

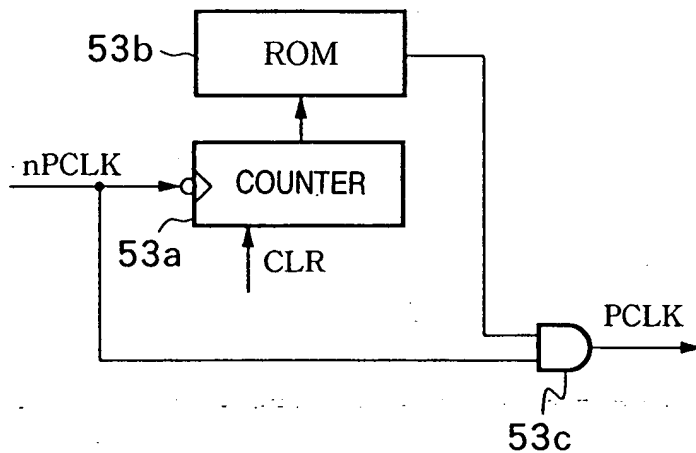


FIG. 15

ADDRESSES OF ROM IN WHICH "H" LEVEL DATA IS STORED
("L" LEVEL DATA ARE STORED AT OTHER ADDRESS)

| |
|-------------------------------|
| 0 |
| 6 |
| 9 |
| 12 |
| 15 |
| 17 |
| 17-519 (ODD NUMBER ADDRESSES) |

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FIG. 16

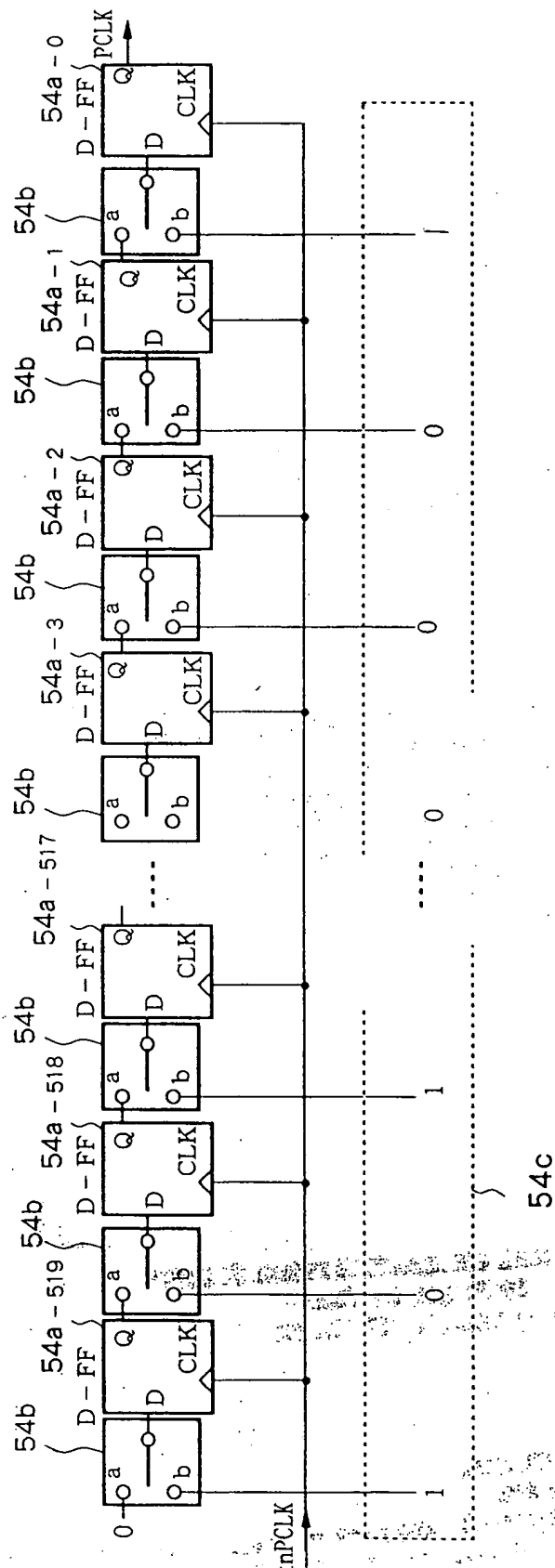
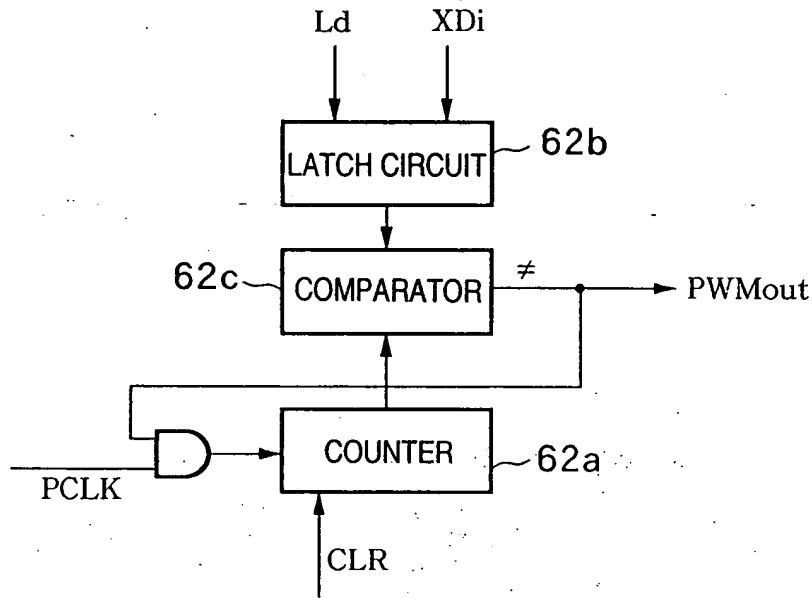


FIG. 17



662720-03584260

FIG. 18

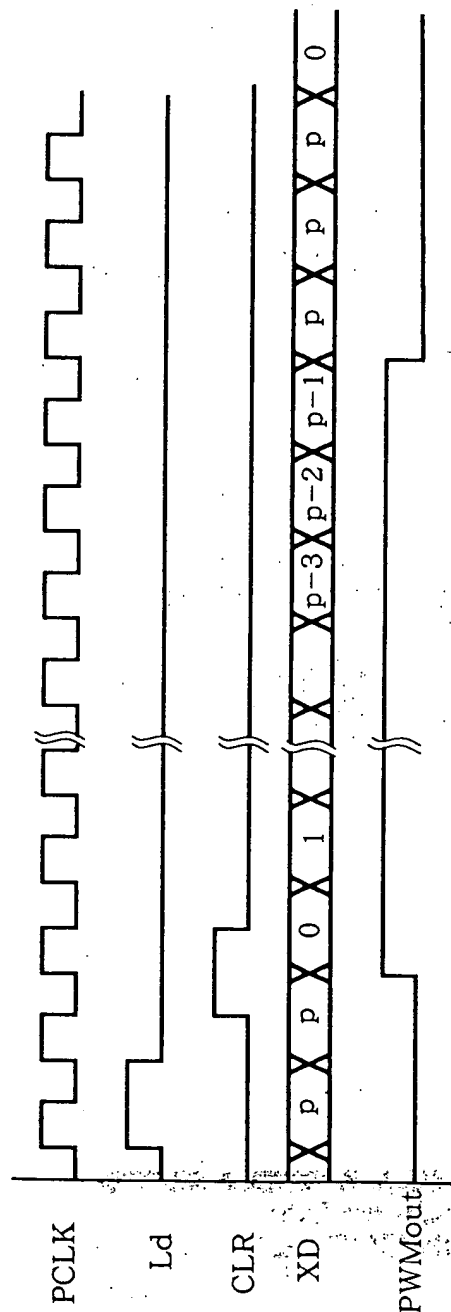


FIG. 19

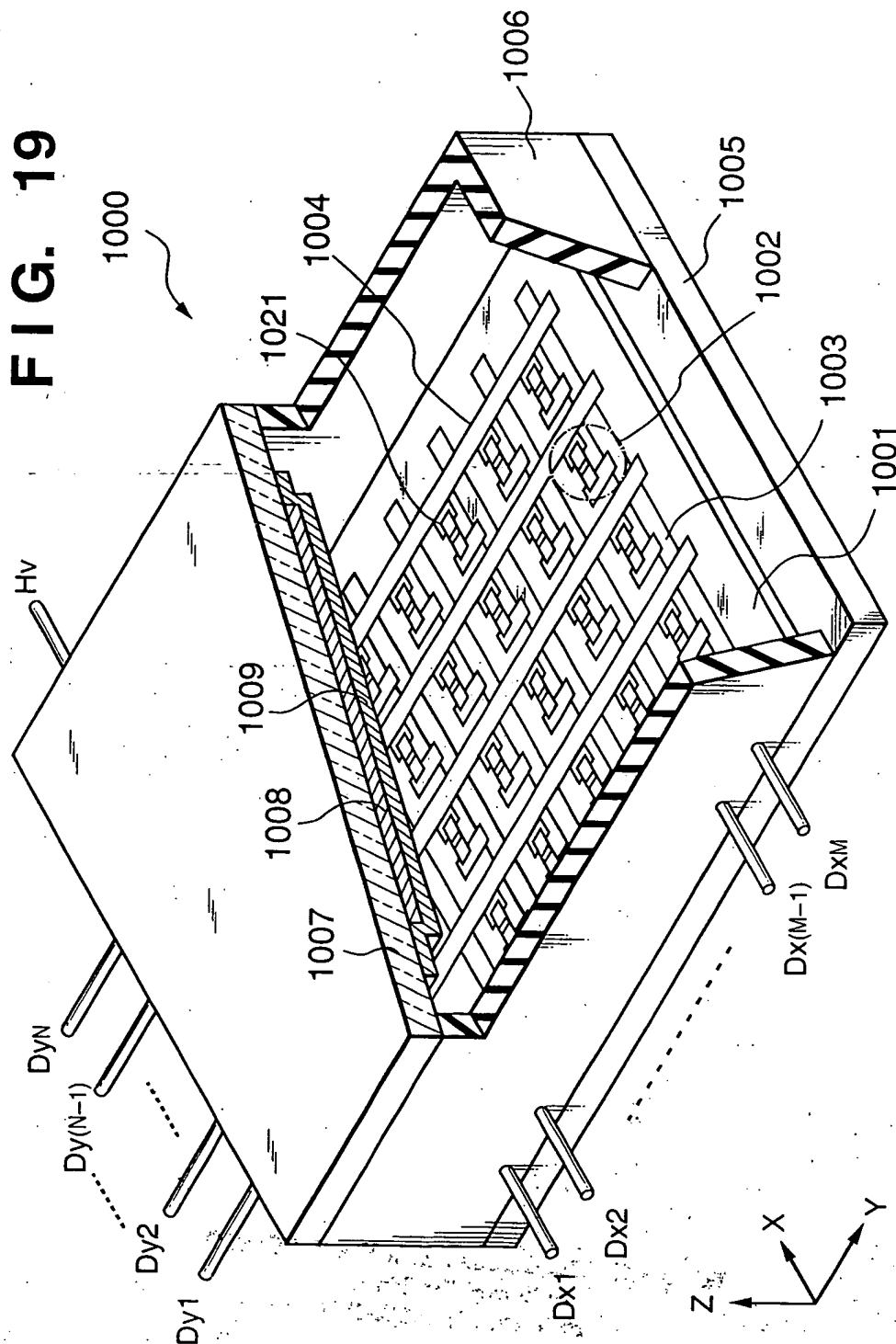


FIG. 20A

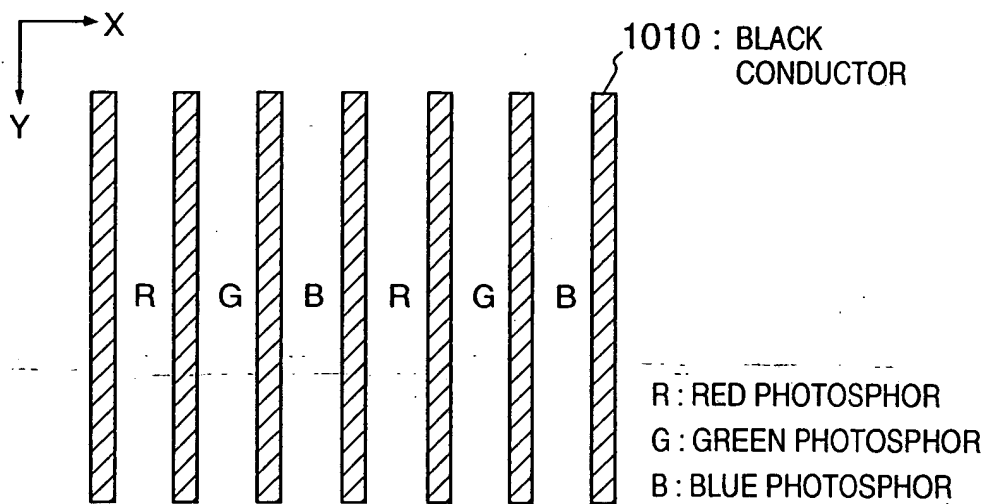


FIG. 20B

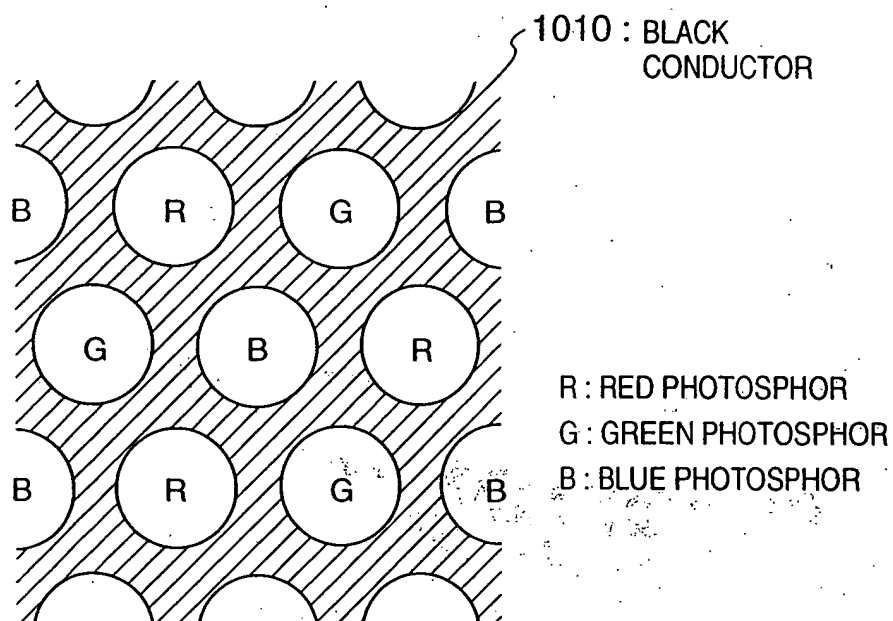
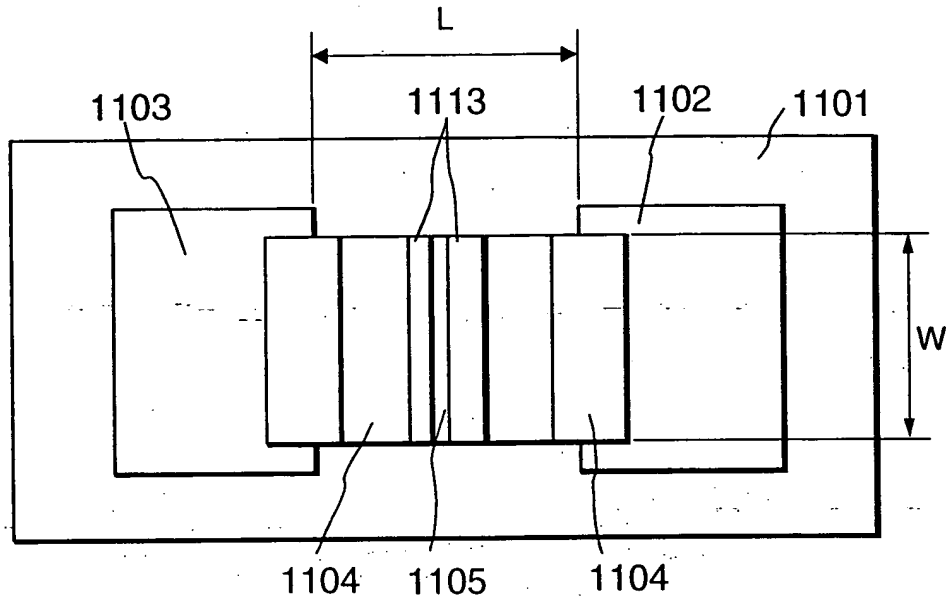
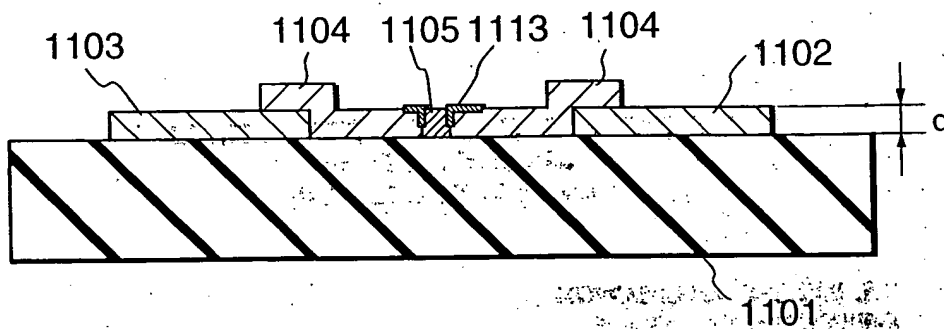


FIG. 21A

FIG. 21B


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662120-08584250

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FIG. 22A

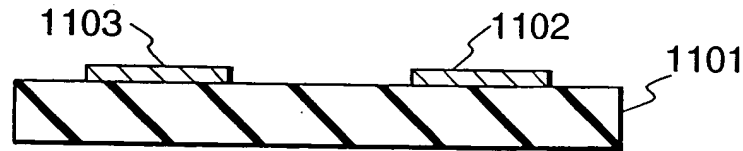


FIG. 22B

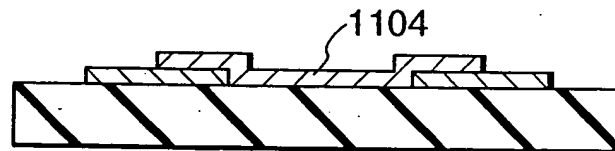


FIG. 22C

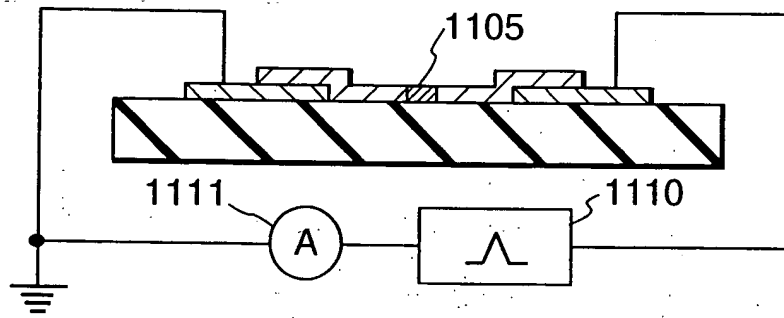


FIG. 22D

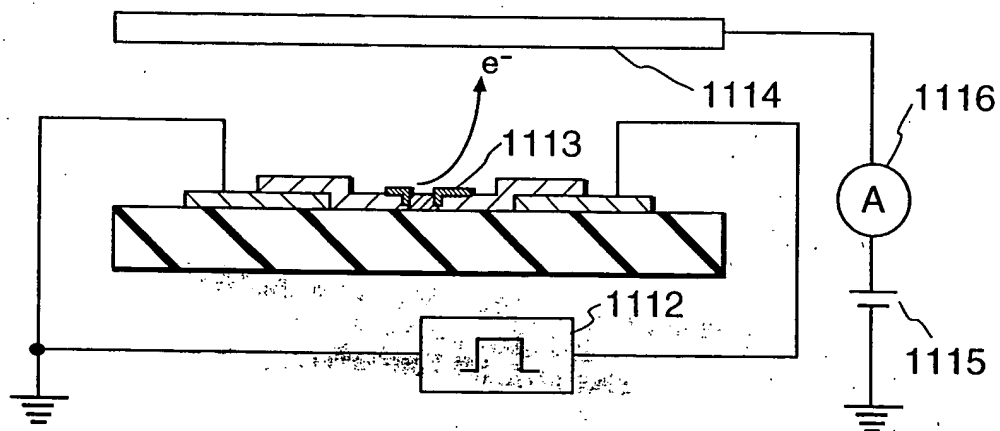


FIG. 22E

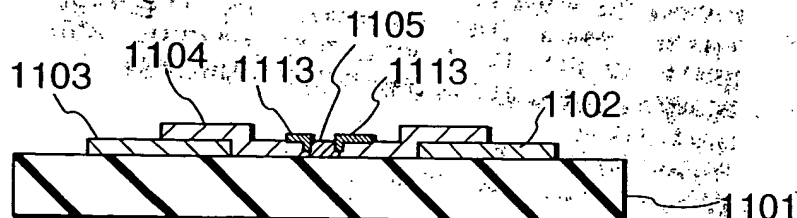
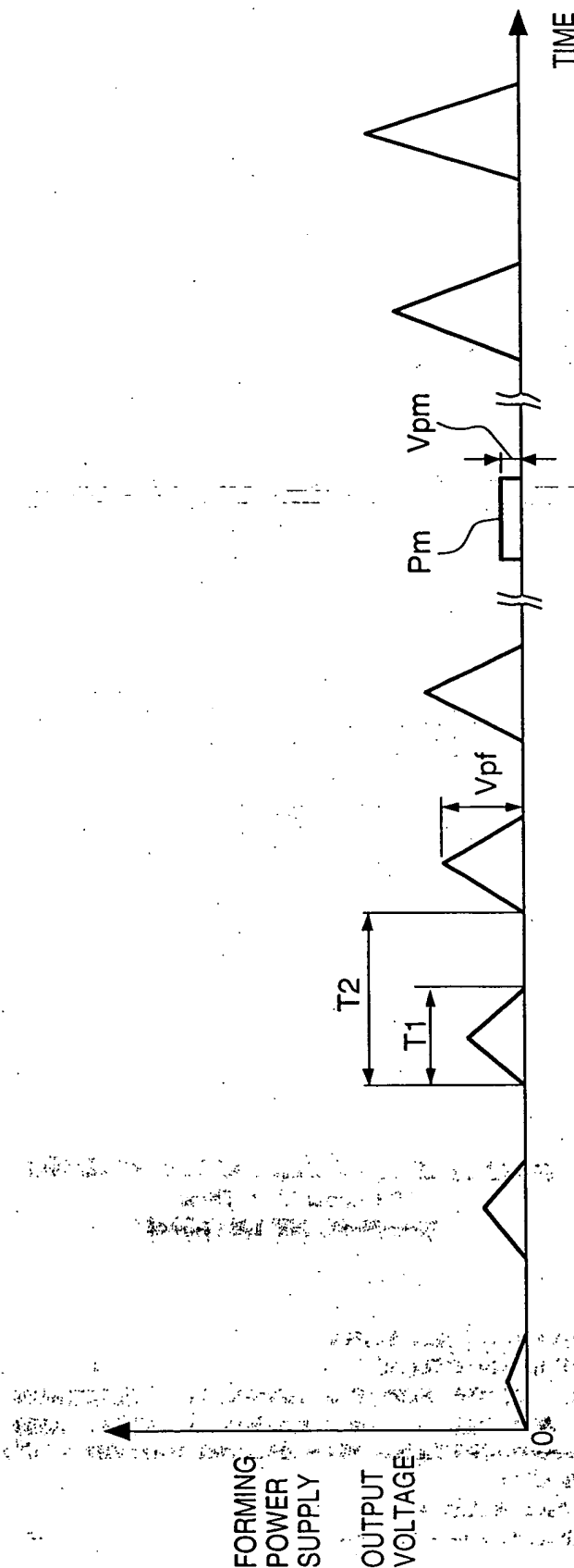


FIG. 23



662120-08634260

FIG. 24A

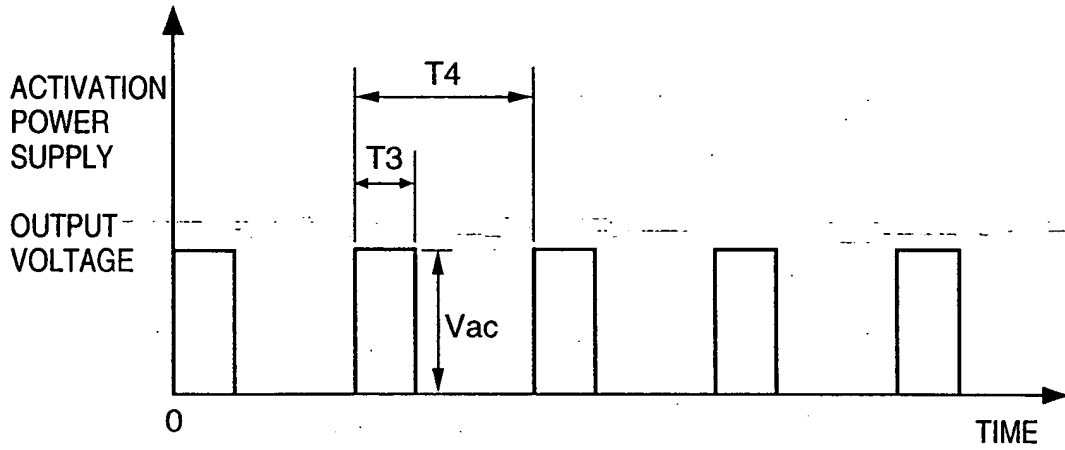
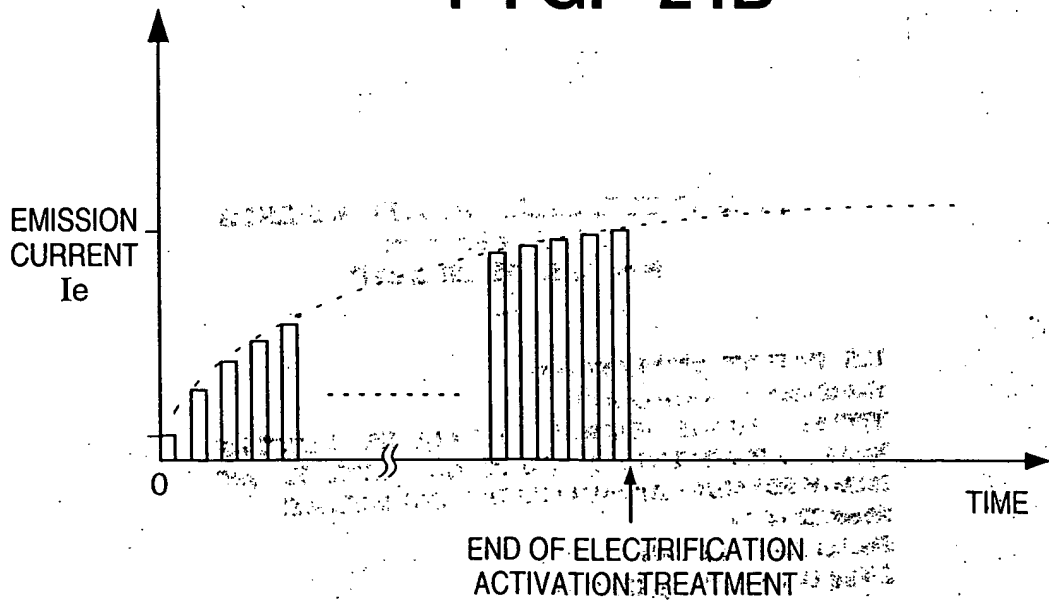


FIG. 24B



662F20" 086B4260

| | | |
|-----------|-------|------|
| BY | CLASS | DATE |
| DRAFTSMAN | | |

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FIG. 25

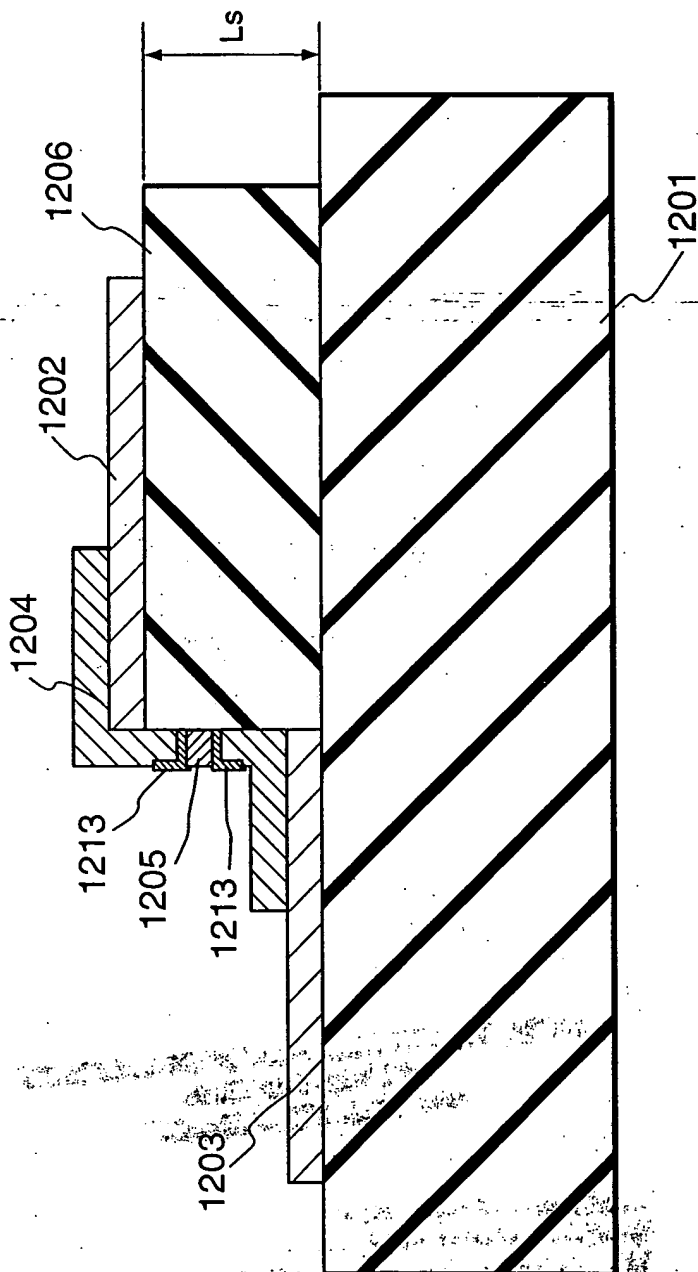


FIG. 26A

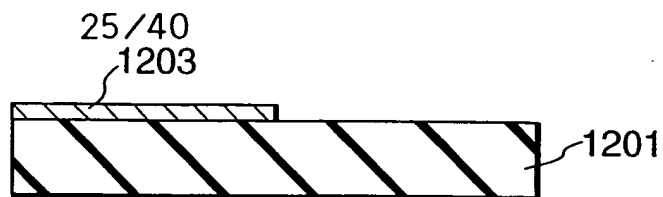


FIG. 26B

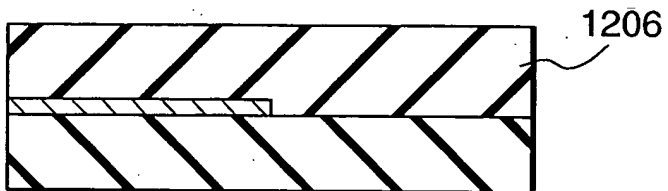


FIG. 26C

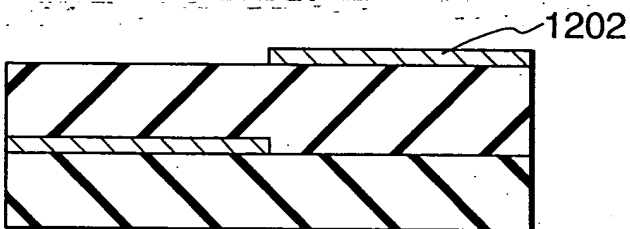


FIG. 26D

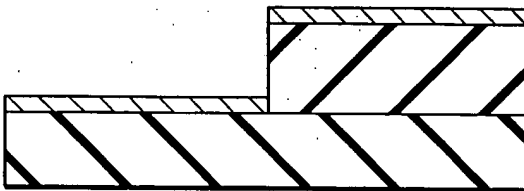


FIG. 26E

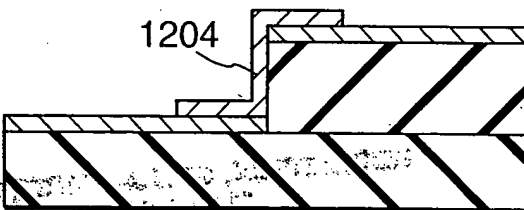


FIG. 26F

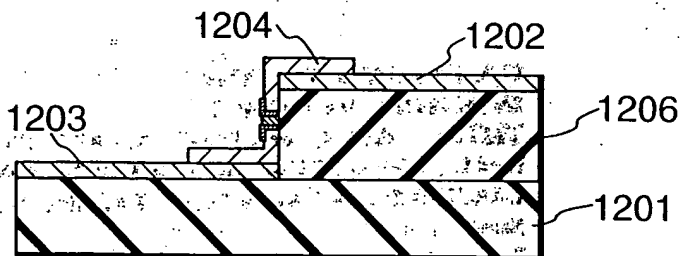
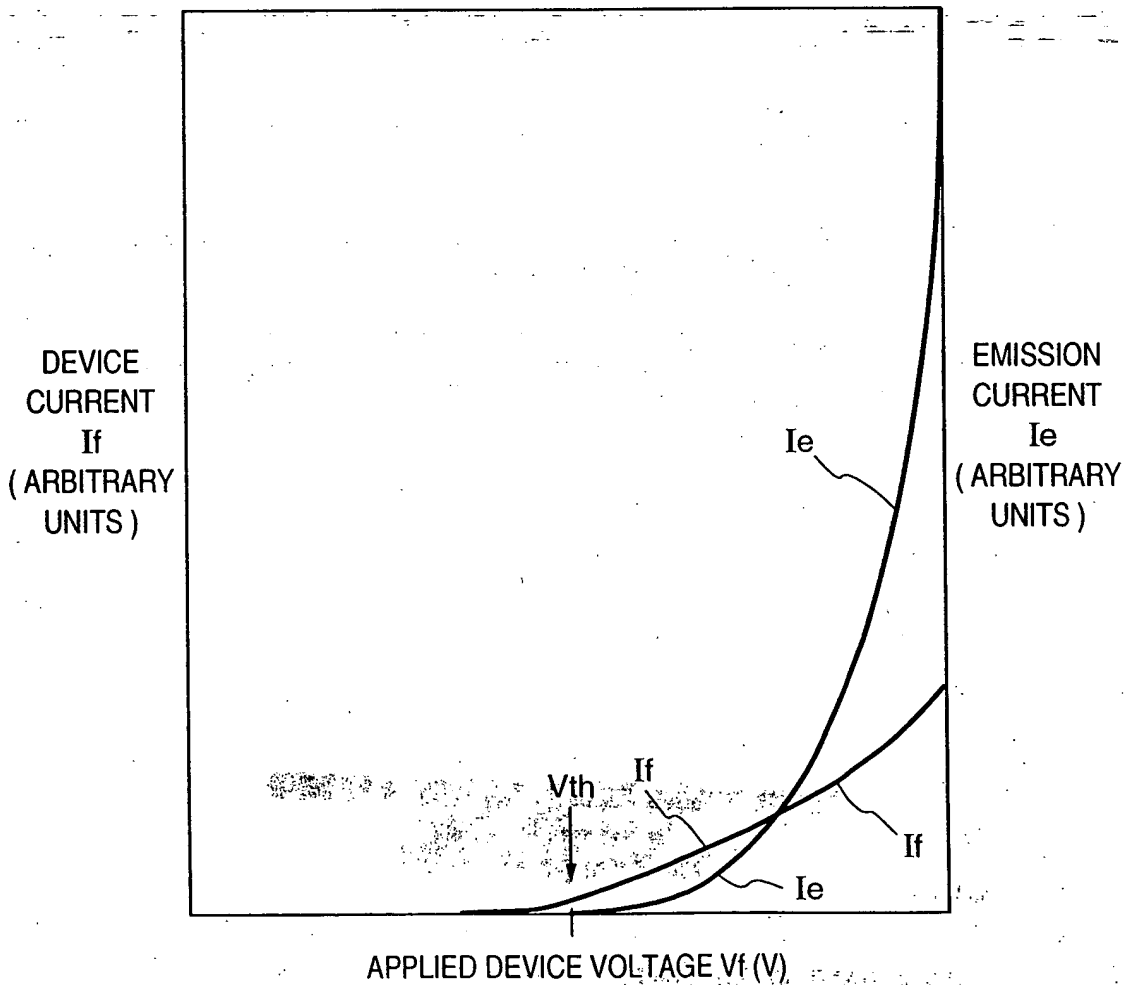


FIG. 27



0048980108684260

662F20-08694260

FIG. 28

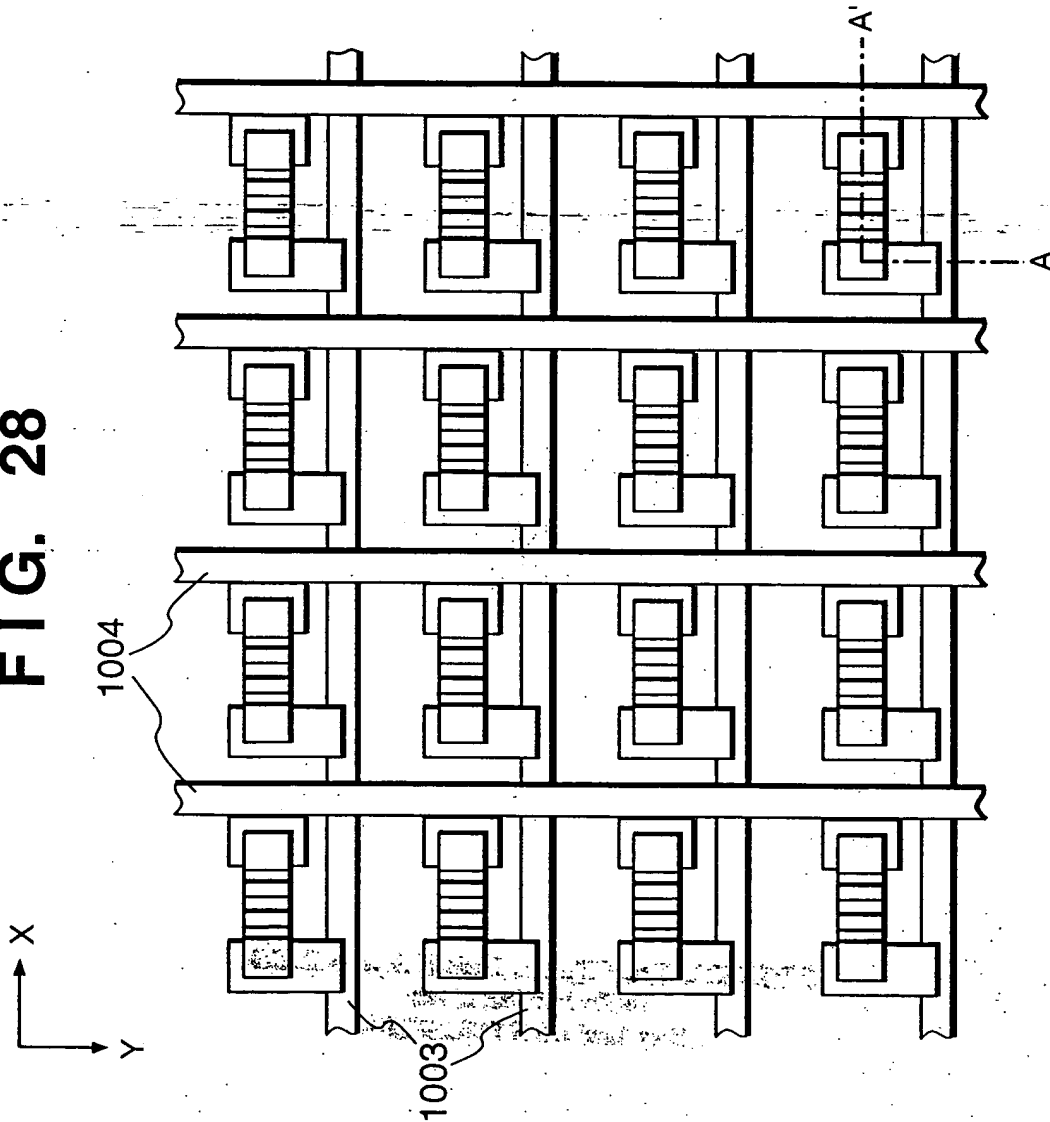


FIG. 29

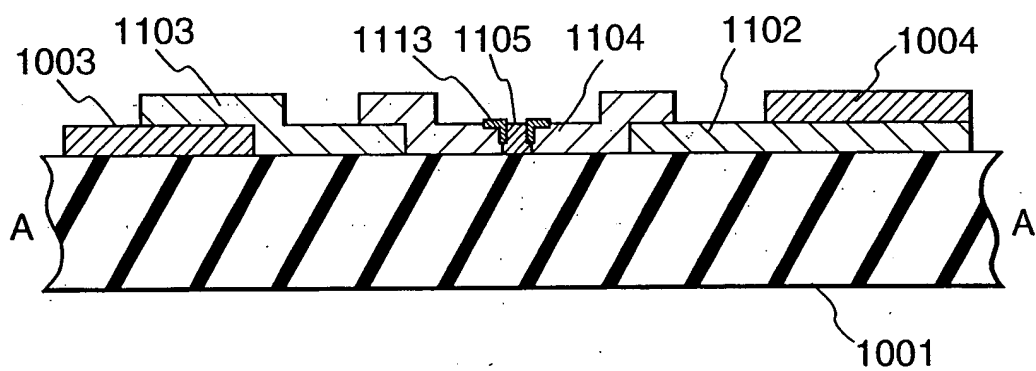


FIG. 30

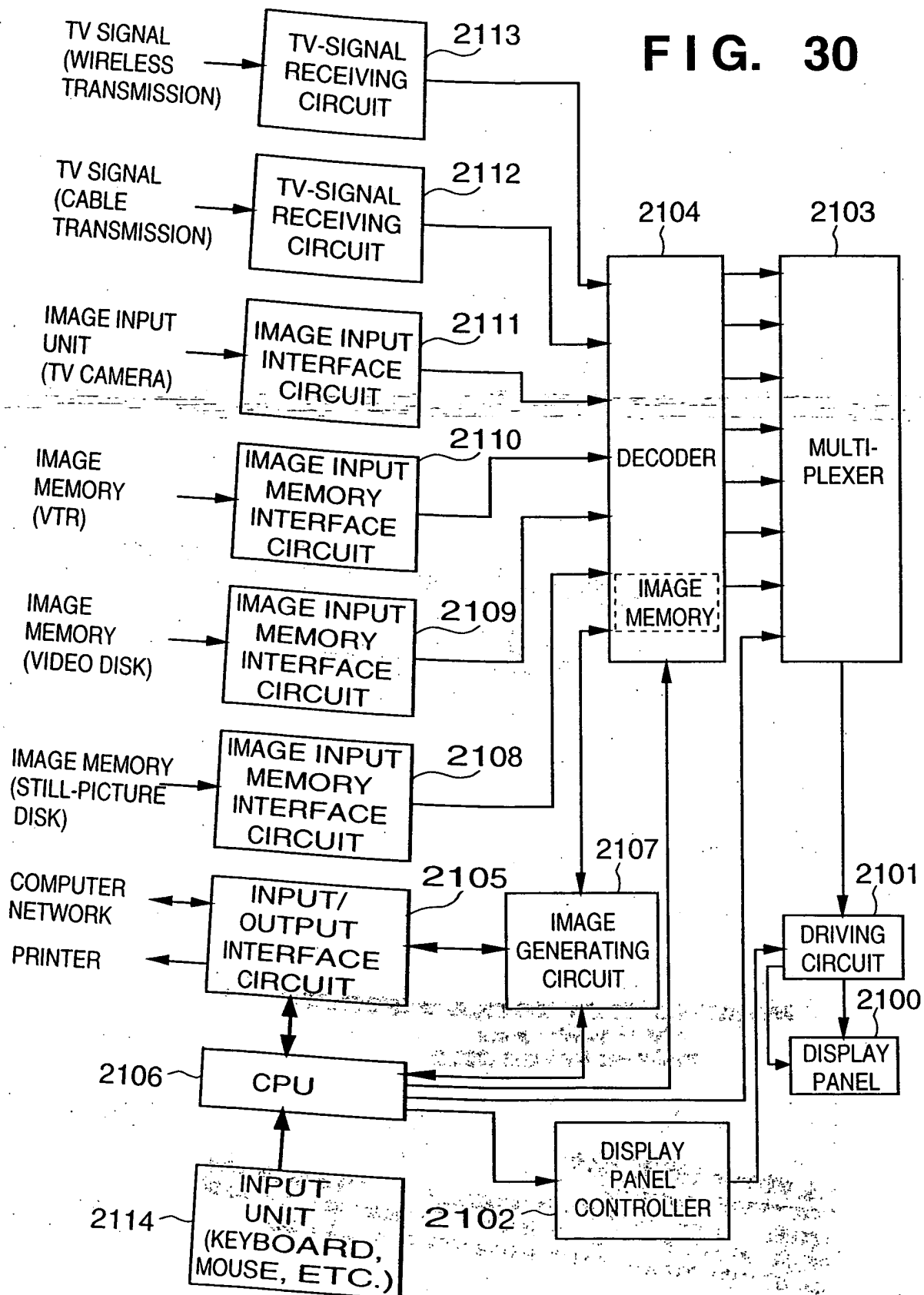
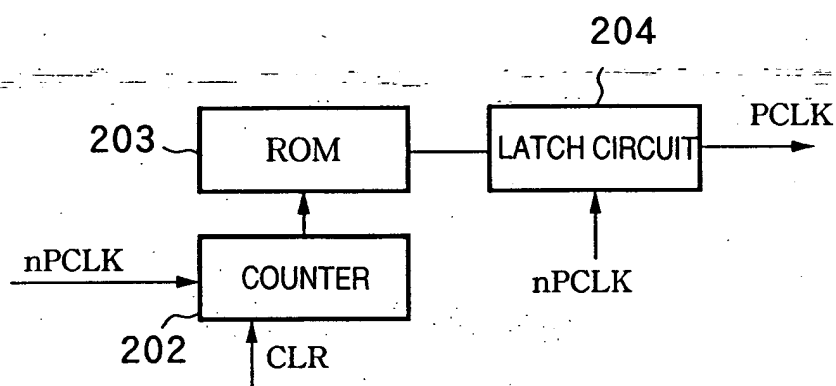


FIG. 31



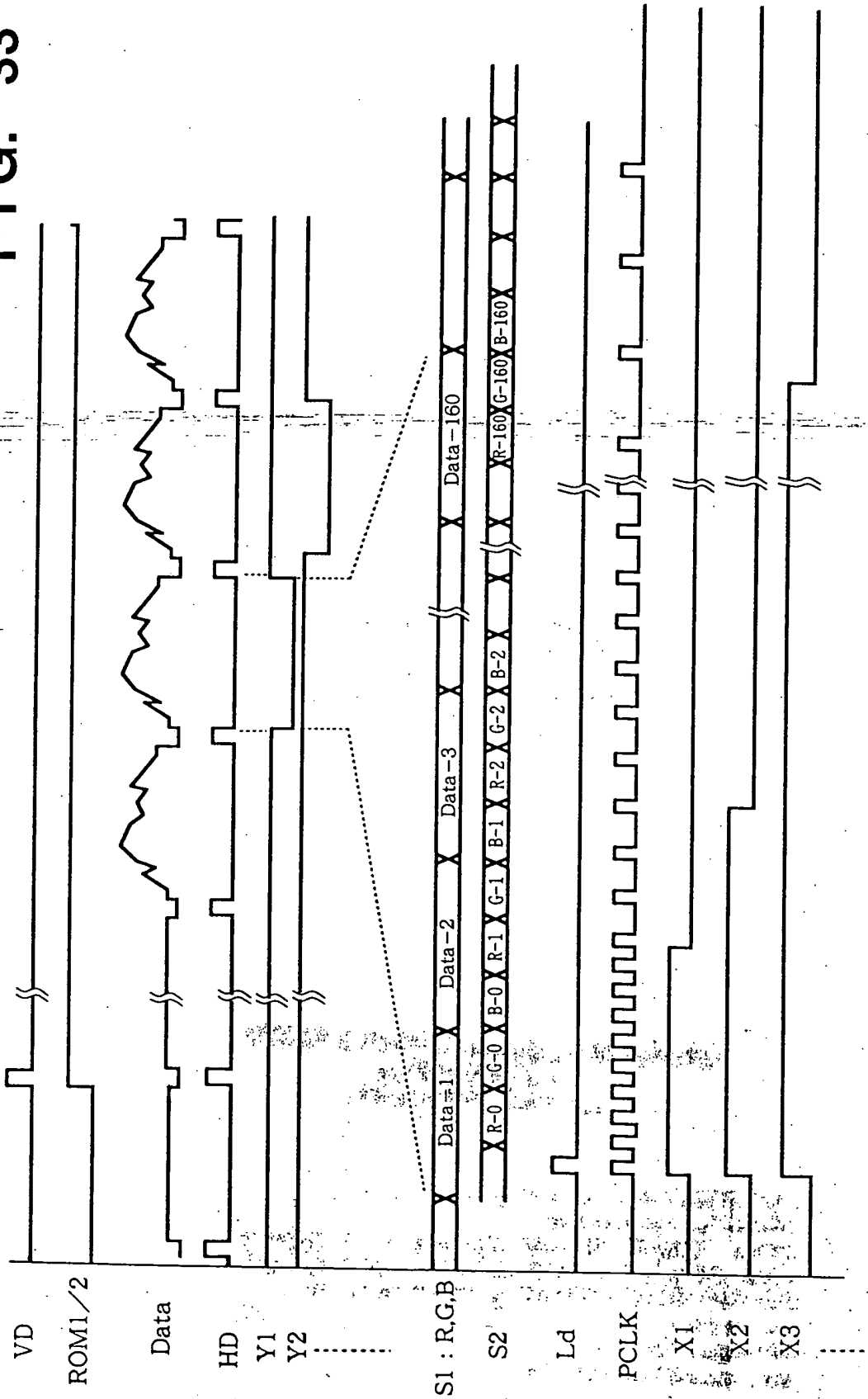
662120-08694260

FIG. 32

TABLE SHOWING ADDRESSES OF "1" DATA
("0" DATA ARE STORED AT OTHER ADDRESSES)

| | | | | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 0 | 40 | 86 | 152 | 240 | 350 | 484 | 640 | 820 | 1026 | 1256 | 1516 | 1800 |
| 2 | 42 | 90 | 156 | 246 | 356 | 490 | 648 | 830 | 1038 | 1270 | 1530 | 1816 |
| 4 | 44 | 92 | 160 | 250 | 362 | 498 | 656 | 840 | 1048 | 1284 | 1544 | 1830 |
| 6 | 46 | 96 | 164 | 256 | 368 | 506 | 666 | 850 | 1060 | 1296 | 1558 | 1846 |
| 8 | 48 | 98 | 168 | 260 | 374 | 512 | 674 | 860 | 1070 | 1308 | 1572 | 1860 |
| 10 | 50 | 102 | 172 | 266 | 382 | 520 | 682 | 870 | 1082 | 1320 | 1584 | 1876 |
| 12 | 52 | 104 | 176 | 272 | 388 | 528 | 692 | 880 | 1094 | 1332 | 1598 | 1892 |
| 14 | 54 | 108 | 182 | 276 | 394 | 536 | 700 | 890 | 1104 | 1346 | 1612 | 1906 |
| 16 | 56 | 110 | 186 | 282 | 400 | 542 | 710 | 900 | 1116 | 1358 | 1626 | 1922 |
| 18 | 58 | 114 | 190 | 288 | 408 | 550 | 718 | 910 | 1128 | 1372 | 1642 | 1938 |
| 20 | 62 | 118 | 194 | 292 | 414 | 558 | 728 | 920 | 1140 | 1384 | 1656 | 1954 |
| 22 | 64 | 120 | 198 | 298 | 420 | 566 | 736 | 930 | 1150 | 1396 | 1670 | 1968 |
| 24 | 66 | 124 | 202 | 304 | 428 | 574 | 746 | 942 | 1162 | 1410 | 1684 | 1984 |
| 26 | 68 | 128 | 208 | 310 | 434 | 582 | 754 | 952 | 1174 | 1424 | 1698 | 2000 |
| 28 | 70 | 130 | 212 | 316 | 440 | 590 | 764 | 962 | 1186 | 1436 | 1712 | 2016 |
| 30 | 74 | 134 | 216 | 320 | 448 | 598 | 774 | 972 | 1198 | 1450 | 1728 | 2032 |
| 32 | 76 | 138 | 222 | 326 | 454 | 606 | 782 | 984 | 1210 | 1462 | 1742 | 2048 |
| 34 | 78 | 142 | 226 | 332 | 462 | 614 | 792 | 994 | 1222 | 1476 | 1756 | |
| 36 | 82 | 146 | 230 | 338 | 468 | 622 | 802 | 1004 | 1234 | 1490 | 1772 | |
| 38 | 84 | 150 | 236 | 344 | 476 | 632 | 810 | 1016 | 1246 | 1502 | 1786 | |

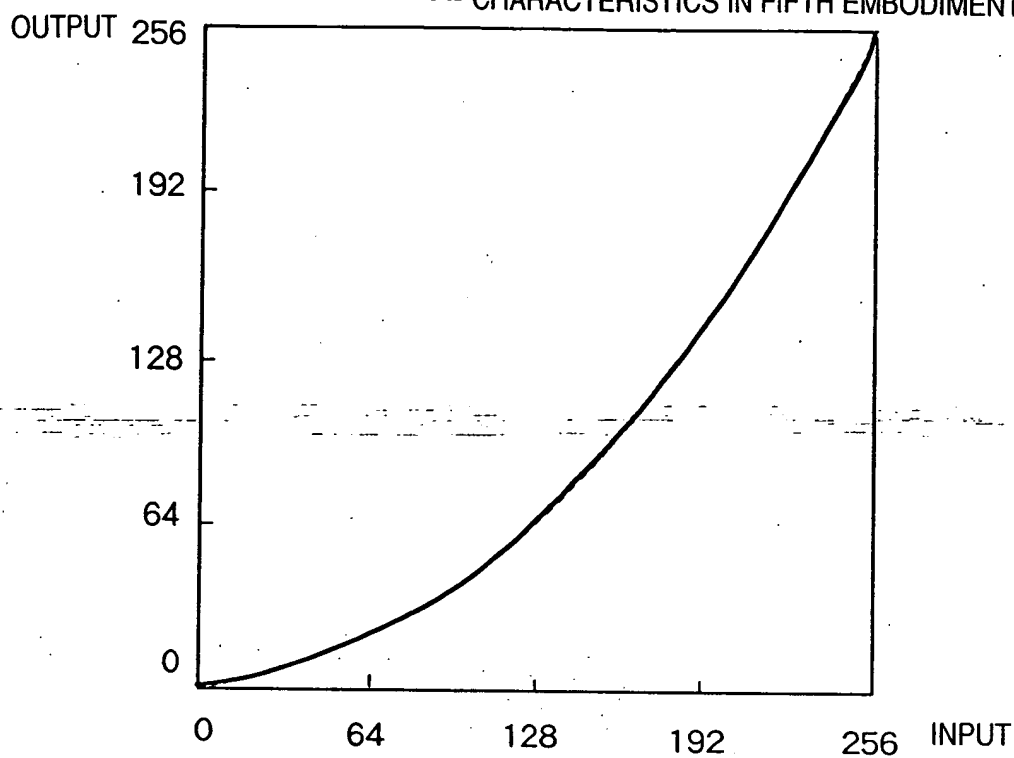
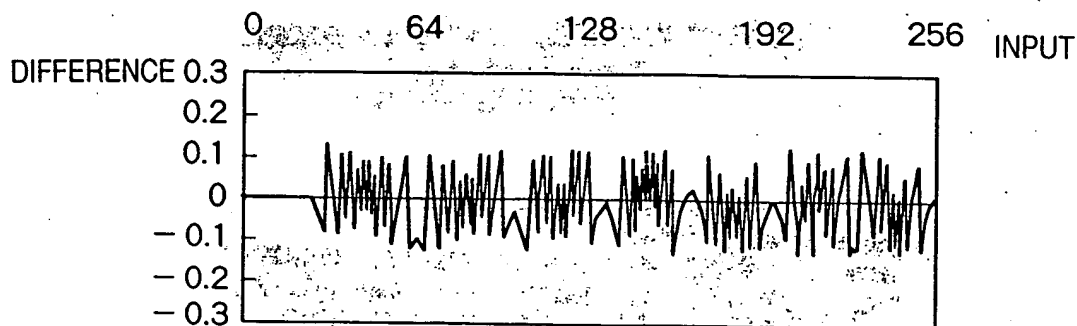
FIG. 33



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----- BAT, SMPTE 1125/60 STUDIO STANDARDS

—— CHARACTERISTICS IN FIFTH EMBODIMENT

**FIG. 34****FIG. 35**

—— DIFFERENCE

FIG. 36

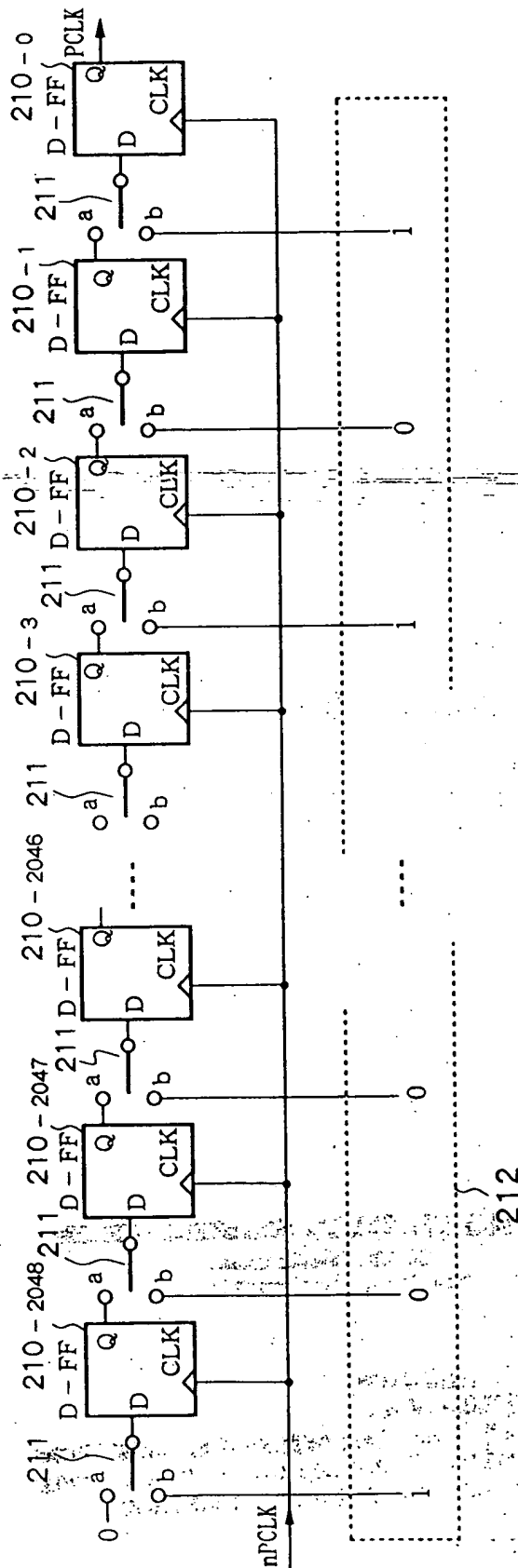


FIG. 37

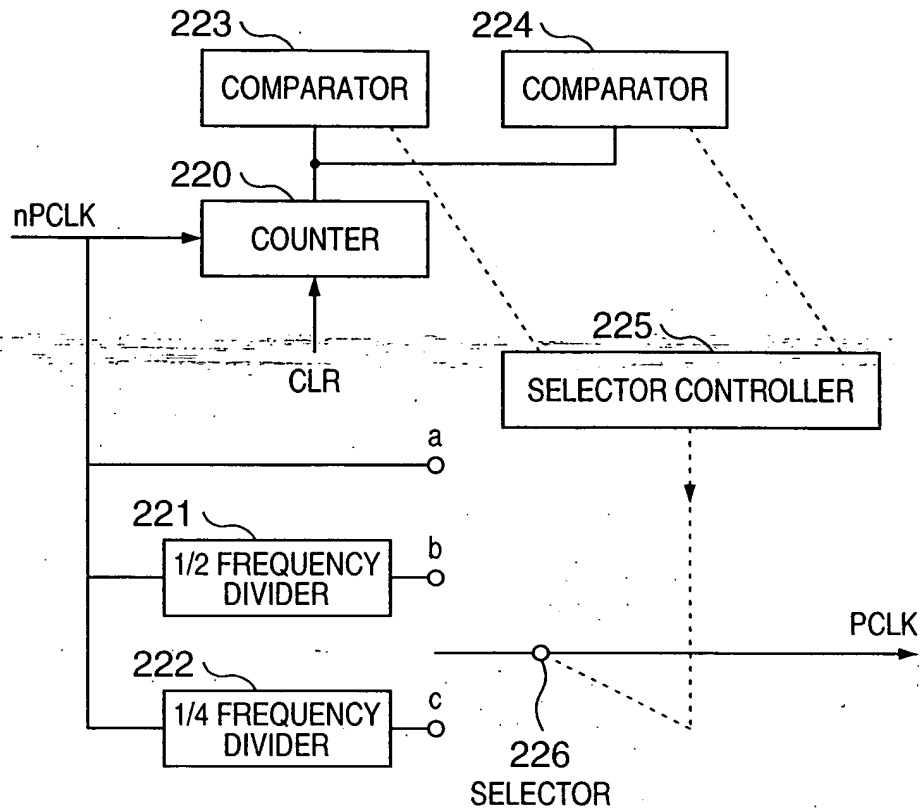


FIG. 38

| COUNTER VALUE | FREQUENCY DIVISION RATIO |
|---------------|--------------------------|
| 0 ~ 63 | 1 / 1 |
| 64 ~ 191 | 1 / 2 |
| 192 ~ 703 | 1 / 4 |

FIG. 40

| COUNTER VALUE | FREQUENCY DIVISION RATIO |
|---------------|-----------------------------|
| 0 ~ 47 | 1 / 1 |
| 48 ~ 111 | 1 / 2 |
| 112 ~ 207 | 1 / 3 |
| 208 ~ 367 | 1 / 4 |
| 368 ~ 527 | 1 / 5 |
| 528 ~ 751 | 1 / 6 |
| 752 ~ 1029 | 1 / 8 |

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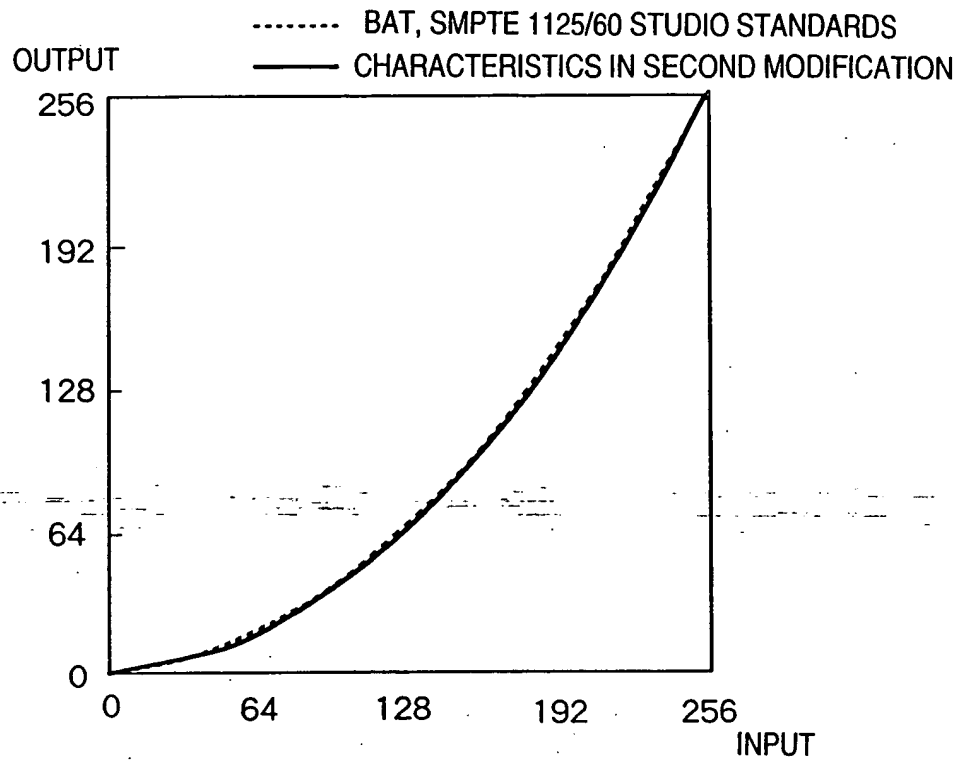
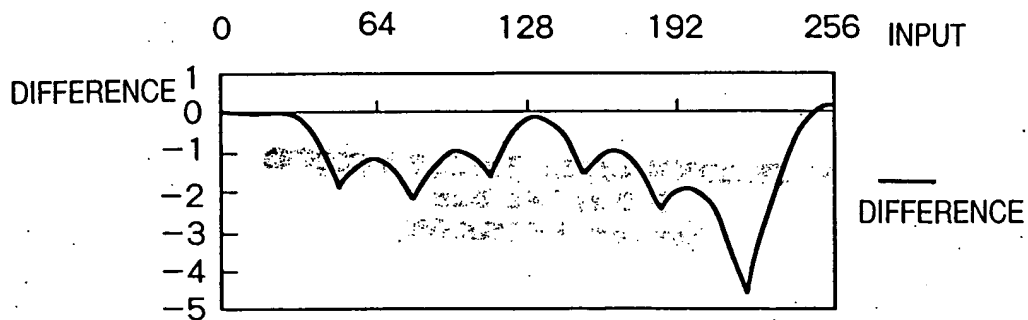
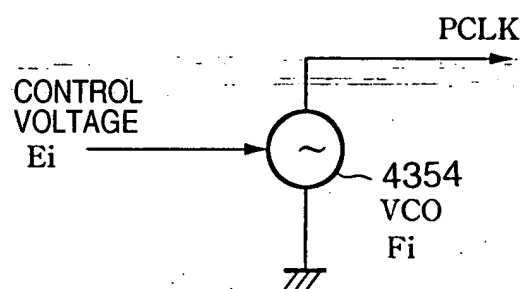


FIG. 41



DIFFERENCE BETWEEN LUMINANCE AND
 INPUT DATA IN SECOND MODIFICATION

FIG. 42

FIG. 43

09248980-021299

FIG. 44

TABLE SHOWING ADDRESSES OF "1" DATA
("0" DATA ARE STORED AT OTHER ADDRESSES)

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 0 | 76 | 124 | 190 | 276 | 384 | 514 | 666 | 844 | 1046 | 1274 | 1528 | 1806 |
| 20 | 78 | 126 | 194 | 280 | 390 | 520 | 676 | 854 | 1058 | 1286 | 1540 | 1822 |
| 26 | 80 | 130 | 198 | 286 | 396 | 528 | 684 | 864 | 1068 | 1298 | 1554 | 1836 |
| 32 | 84 | 132 | 202 | 290 | 402 | 534 | 692 | 874 | 1080 | 1310 | 1568 | 1850 |
| 36 | 86 | 136 | 204 | 296 | 408 | 542 | 700 | 884 | 1090 | 1322 | 1580 | 1866 |
| 40 | 88 | 138 | 208 | 300 | 414 | 550 | 710 | 892 | 1102 | 1336 | 1594 | 1880 |
| 42 | 90 | 142 | 214 | 306 | 420 | 556 | 718 | 902 | 1112 | 1348 | 1608 | 1896 |
| 46 | 92 | 144 | 218 | 310 | 426 | 564 | 726 | 912 | 1124 | 1360 | 1622 | 1910 |
| 48 | 94 | 148 | 222 | 316 | 432 | 572 | 736 | 922 | 1134 | 1372 | 1636 | 1926 |
| 50 | 96 | 152 | 226 | 322 | 438 | 580 | 744 | 932 | 1146 | 1384 | 1650 | 1940 |
| 54 | 98 | 154 | 230 | 326 | 446 | 588 | 752 | 942 | 1158 | 1398 | 1664 | 1956 |
| 56 | 100 | 158 | 234 | 332 | 452 | 594 | 762 | 952 | 1168 | 1410 | 1678 | 1972 |
| 58 | 104 | 160 | 238 | 338 | 458 | 602 | 770 | 962 | 1180 | 1422 | 1692 | 1986 |
| 60 | 106 | 164 | 242 | 342 | 466 | 610 | 780 | 974 | 1192 | 1436 | 1706 | 2002 |
| 64 | 108 | 168 | 248 | 348 | 472 | 618 | 788 | 984 | 1204 | 1448 | 1720 | 2018 |
| 66 | 110 | 172 | 252 | 354 | 478 | 626 | 798 | 994 | 1214 | 1462 | 1734 | 2034 |
| 68 | 114 | 174 | 256 | 360 | 486 | 634 | 808 | 1004 | 1226 | 1474 | 1748 | 2048 |
| 70 | 116 | 178 | 262 | 366 | 492 | 642 | 816 | 1014 | 1238 | 1488 | 1762 | |
| 72 | 118 | 182 | 266 | 372 | 500 | 650 | 826 | 1026 | 1250 | 1500 | 1778 | |
| 74 | 122 | 186 | 270 | 378 | 506 | 658 | 836 | 1036 | 1262 | 1514 | 1792 | |